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Section 4

State Water Plan - Cedar/Beaver Basin

Demographics and Economic Future

4.1 Introduction

Although the trade and government sectors each exceed agriculture in employment, the economy of the Cedar/Beaver Basin is characterized by agricultural commodity production, mostly beef, dairy and irrigated crops. Alfalfa, produced on 60 percent of the irrigated land, grass hay (11 percent), pasture (10 percent), grain (8 percent), and corn (2 percent) are grown mainly for livestock feed. Potatoes are produced on 3 percent of the irrigated land. Approximately 2 percent is in fallow. A major addition to agricultural production and income is taking shape. A large hog production and processing enterprise is located near Milford. Projections of population and employment presented here account for this potential change.

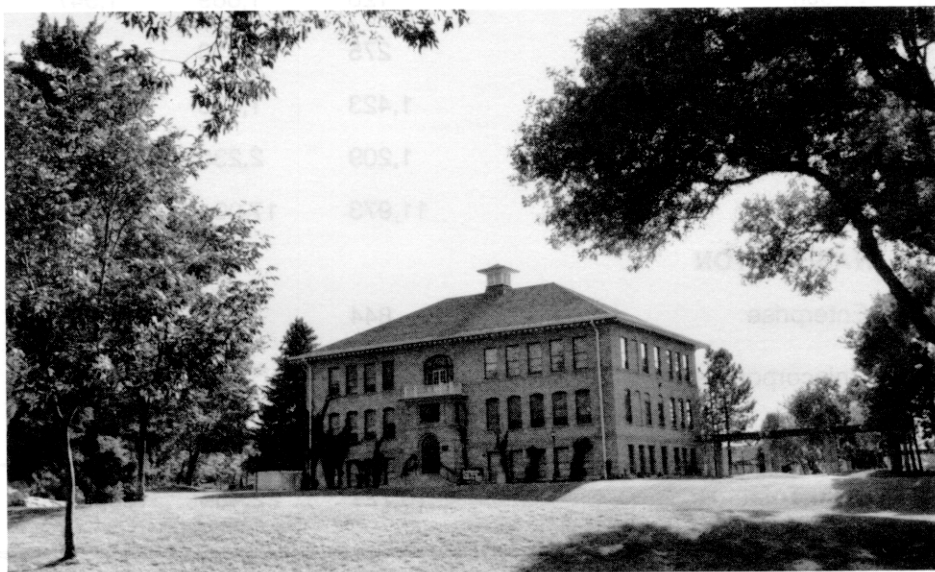
As growth occurs, proper planning at all levels of government will depend on reliable and consistent data. This section will present the data to help local leaders anticipate the need for timely water resources development. Combining these data with the latest technology for delivering, using and conserving available water should result in coordinated planning and manageable economic growth.

4.2 Demographics

For the 30-year projection period of 1990 to 2020, Beaver County's population is projected to grow at an average annual rate of 2.6 percent. This is higher than the expected growth of the state, which is 2 percent. The community of Beaver will experience the greatest growth as shown in Table 4-1 and Figure 4-1. Minersville shows a similar growth pattern from 1990 to 2020, while Milford is projected to experience a lower growth pattern. Current unincorporated areas will grow at a faster rate.

Iron County's population will grow by 2.5 percent annually during the projection period. Figure 4-2 shows that

■ **The Cedar/Beaver Basin consists of stable farm and ranch enterprises and rural communities. Provo, the nearest major commercial center to the basin, is 150 miles from Beaver. Cedar City is the major commercial center in the basin.**



Southern Utah University - Cedar City

Cedar City will continue to lead the Iron County municipalities in absolute population growth. The current unincorporated area shows the strongest growth with an average of 3.7 percent per year for the projection period.

The Governor's Office of Planning and Budget has developed the procedures and criteria for making population projections. The Utah Process Economic and Demographic (UPED) model is part of this. This projection model takes into account many variables regarding the demographics and industrial mix of an area. This model incorporates historical employment growth rates into the future growth patterns.

Assumptions regarding labor force participation rates, non-employment related migration rates, and constant age-specific fertility and survival rates are also incorporated. The transient population occupying the large number of seasonal hotel rooms at Brian Head are not counted.

Because of the dramatic growth, an Iron County Population Work Group is being formed to address new projections in the future. This is in conjunction with the Five County Association of Governments. Projections for Beaver County will also be addressed as the need arises.

**Table 4-1
BASIN POPULATION AND PROJECTIONS**

County/City	1970	1980	1990	2000	2010	2020
BEAVER						
Beaver	1,453	1,792	1,998	3,496	4,086	4,325
Milford	1,304	1,293	1,107	1,728	1,827	1,846
Minersville	448	552	608	1,060	1,236	1,319
Unincorporated	595	741	1,052	1,966	2,446	2,841
Subtotal	3,800	4,378	4,765	8,250	9,615	10,331
IRON						
Brian Head	NA	77	109	150	199	242
Cedar City	8,946	10,972	13,443	17,352	22,275	26,194
Enoch	120	1,669	1,947	2,900	3,633	4,177
Paragonah	275	310	307	382	460	513
Parowan	1,423	1,836	1,873	2,800	3,492	4,002
Unincorporated	1,209	2,230	2,882	4,233	6,249	8,520
Subtotal	11,973	17,094	20,561	27,817	36,308	43,648
WASHINGTON						
Enterprise	844	905	936	1,229	1,550	1,838
Unincorporated	104	77	223	343	562	759
Subtotal	948	982	1,159	1,572	2,112	2,597
Basin Total	16,721	22,454	26,485	37,639	48,035	56,576

4.3 Employment

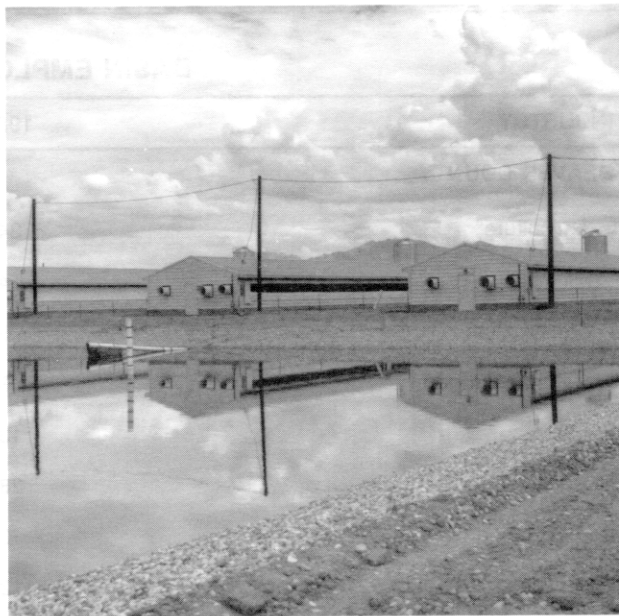
In 1980, agriculture and government provided the most employment in Beaver County, totalling 43 percent or 700 jobs. In 1990, government and trade were the two largest sectors, accounting for 45 percent of the jobs in Beaver County. Government and trade led employment in 1980 in Iron County, combining for 50 percent or 3,400 jobs. In 1990 government and trade still accounted for 50 percent or 4,400 jobs. Future employment gains in the basin are expected to be most rapid in the trade and service sectors. Agricultural employment in Beaver County was 316 in 1990, but it is expected to increase to 807 due to the hog production operation. Mining lost 40 jobs in Beaver County in the last decade and is not expected to provide additional employment in the future. Iron County can be expected to experience a loss of mining employment. Other sectors are expected to show steady growth with the services sector leading the increase with an average of 3.5 percent per year.

Trade and service employment is projected to concentrate in Beaver and Cedar City. Government will lead the employment field in Beaver and Iron counties as shown in Table 4-2 and Figures 4-3 and 4-4. Agricultural employment in Beaver County will outpace all sectors during the 1990s, leveling out at just over 800 jobs. This will be primarily because of the hog production facility. Services is the third largest employment sector in Iron County with manufacturing, agriculture and construction showing the least in numbers employed and rate of growth.

4.4 Economic Future

Cedar City and Beaver will experience strong population growth through the planning period. Small towns will have slow but steady growth. Household size in Iron County is slowly decreasing and is expected be below 3.0 by 2005. In Beaver County, the average household size currently estimated at 3.0 is expected to slowly decrease to 2.76 at period's end. Cedar City in Iron County is expected to continue its aggressive strategy for recruiting new businesses, resulting in a growth of light industrial and commercial firms.

As with the state, the overall pattern in Iron County shows a significant shift away from dependence on traditional goods-producing economic activities. The trend is toward service-producing industries as the driving sectors in the private economy. Government employment, which includes personnel and faculty at Southern Utah University, will continue to be a significant force in the basin economy.



Circle Four Farms hog facility near Milford

The entrance of pork production and processing to the Milford area will strengthen agricultural employment and income significantly. As farmers expand their operations to meet the new demand, opportunities will be created for additional employment and use of area resources. ■ ■

**Table 4-2
BASIN EMPLOYMENT PROJECTIONS**

INDUSTRY	1980	1990	2000	2010	2020
BEAVER COUNTY					
Agriculture ^a	340	330	807	807	806
Mining	40	0	0	0	0
Construction	50	30	58	68	76
Manufacturing	30	82	114	131	146
TCPU ^b	130	149	170	181	189
Trade	280	370	621	756	862
FIRE ^c	30	35	65	76	82
Services ^d	120	141	363	444	512
Government	360	478	692	835	908
Non-Farm Proprietors ^e	240	125	233	289	323
Total Employment	1,620	1,740	3,123	3,587	3,904
Non-Agriculture W&S Employment ^a	1,050	1,285	2,087	2,495	2,778
IRON COUNTY					
Agriculture ^a	560	584	567	589	604
Mining	160	156	31	31	31
Construction	290	215	479	578	705
Manufacturing	450	723	952	1,093	1,275
TCPU ^b	410	412	355	440	540
Trade	1,510	2,065	2,799	3,600	4,362
FIRE ^c	300	209	294	375	439
Services ^d	640	1,509	2,413	3,303	4,233
Government	1,890	2,342	3,384	4,491	5,505
Non-Farm Proprietors ^e	600	553	761	1,016	1,227
Total Employment	6,810	8,768	12,035	15,516	18,921
Non-Agriculture W&S Employment ^a	5,660	7,687	10,784	14,009	17,205

^aAgriculture and non-agriculture wage and salary employment includes specific agriculture support services.

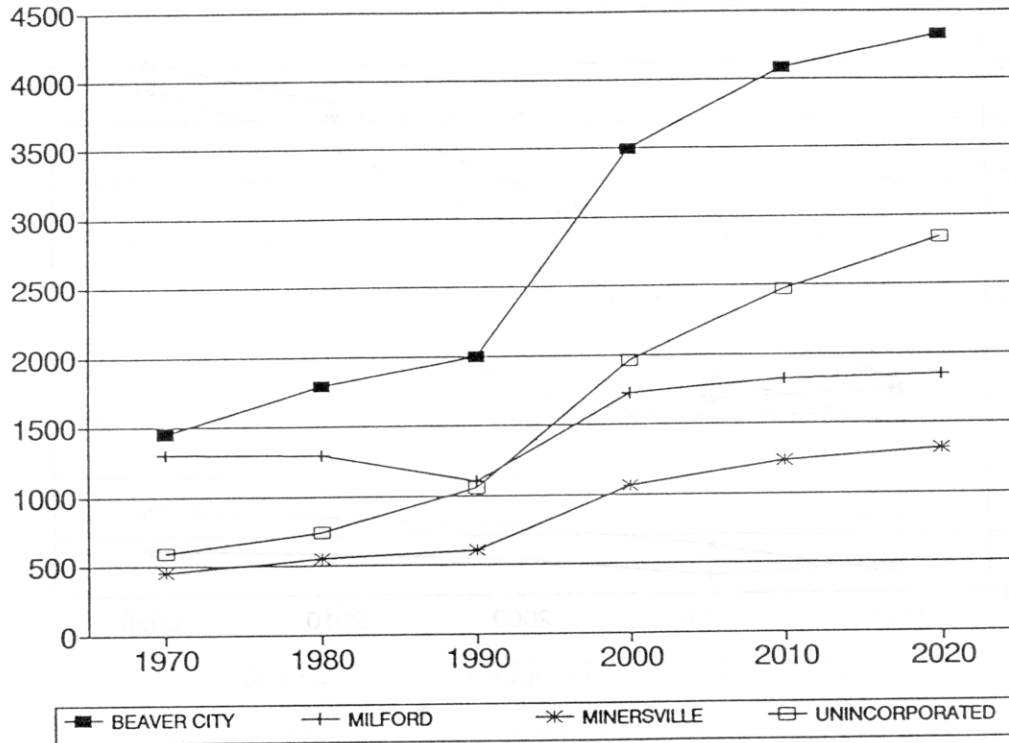
^bTransportation, communications and public utilities.

^cFinance, insurance and real estate.

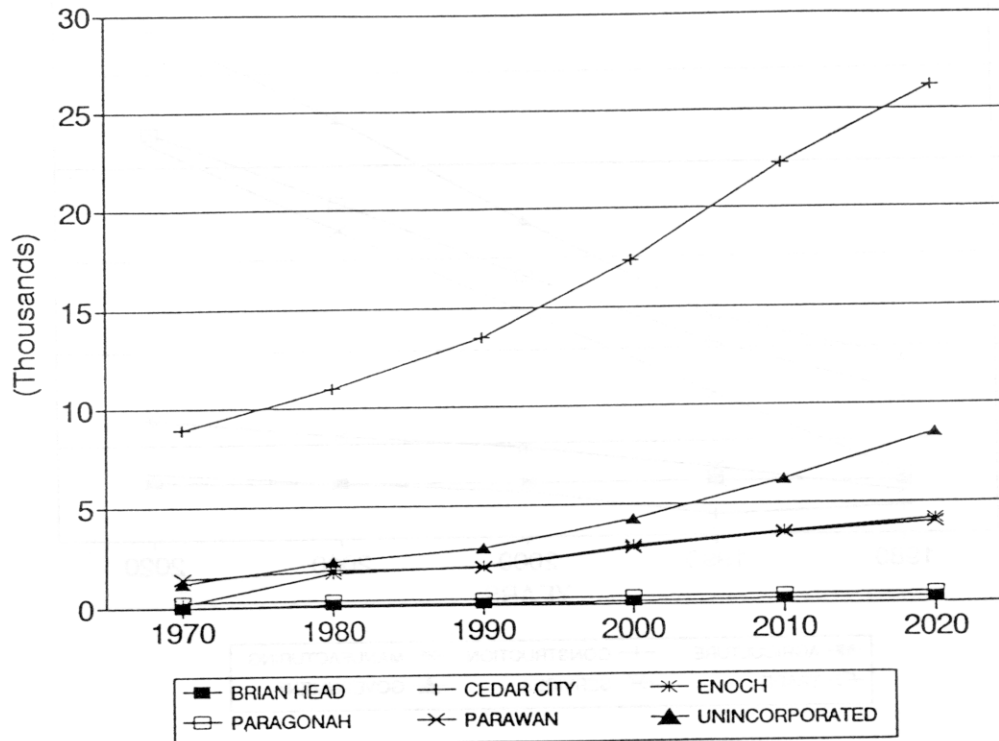
^dIncludes private household employment; excludes agricultural employment.

^eUtah Department of Employment Security definition.

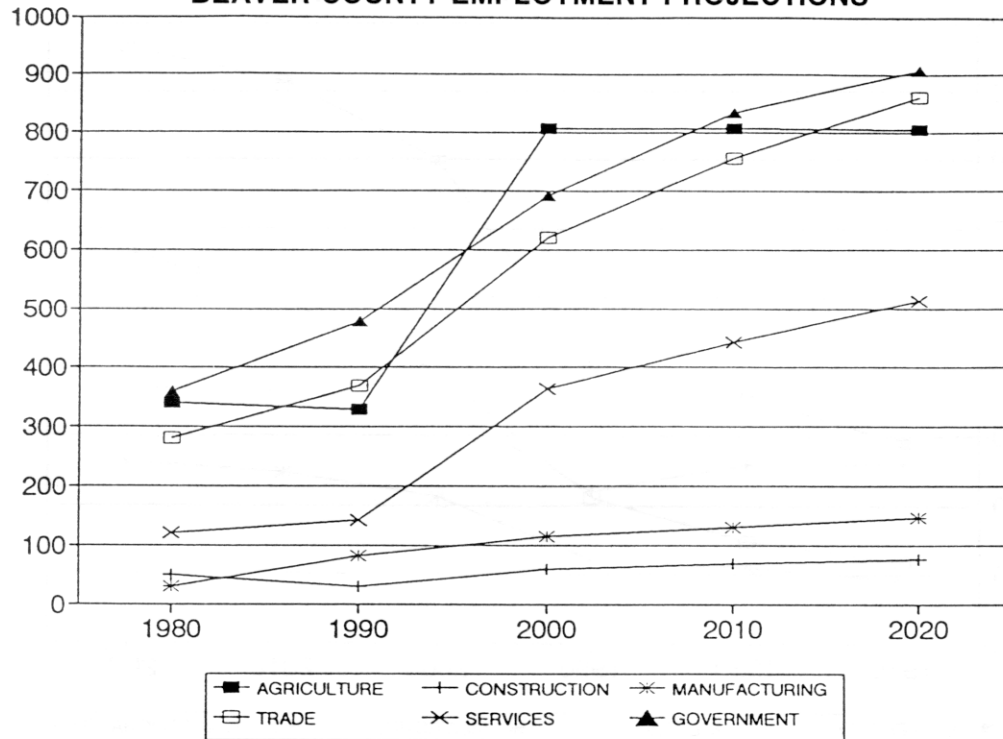
**Figure 4-1
BEAVER COUNTY POPULATION AND PROJECTIONS**



**Figure 4-2
IRON COUNTY POPULATION AND PROJECTIONS**



**Figure 4-3
BEAVER COUNTY EMPLOYMENT PROJECTIONS**



**Figure 4-4
IRON COUNTY EMPLOYMENT PROJECTIONS**

